

# TAISOX 9001

## High Density Polyethylene

Formosa Plastics Corporation

TechnicalData

### Product Description

TAISOX 9001 is a High Density Polyethylene material. It is available in Asia Pacific, Europe, or North America.

Important attributes of TAISOX 9001 are:

- HighStrength
- High Toughness

Typical applications include:

- Bags/Liners
- Film
- Plumbing/Piping/PotableWater

### General

|                       |                             |               |                        |
|-----------------------|-----------------------------|---------------|------------------------|
| MaterialStatus        | •Commercial:Active          |               |                        |
| SearchforULYellowCard | •FormosaPlasticsCorporation |               |                        |
| Availability          | •AsiaPacific                | •Europe       | • North America        |
| Features              | •HighDensity                | •HighStrength | • Ultra High Toughness |
| Uses                  | •Bags                       | •Film         | • Piping               |
| Forms                 | •Pellets                    |               |                        |

| Physical                               | NominalValueUnit | TestMethod |
|----------------------------------------|------------------|------------|
| Density                                | 0.950g/cm³       | ASTM D1505 |
| MeltMass-FlowRate(MFR)(190°C/2.16kg)   | 0.050g/10min     | ASTM D1238 |
| EnvironmentalStress-CrackingResistance | 1000hr           | ASTM D1693 |

| Mechanical               | NominalValueUnit | TestMethod |
|--------------------------|------------------|------------|
| TensileStrength          |                  | ASTM D638  |
| Yield                    | 25.5MPa          |            |
| Break                    | 37.3MPa          |            |
| TensileElongation(Break) | 800%             | ASTM D638  |

| Impact                | NominalValueUnit | TestMethod |
|-----------------------|------------------|------------|
| TensileImpactStrength | 785kJ/m²         | ASTM D1822 |

| Hardness                  | NominalValueUnit | TestMethod |
|---------------------------|------------------|------------|
| DurometerHardness(ShoreD) | 65               | ASTM D2240 |

| Thermal                   | NominalValueUnit | TestMethod |
|---------------------------|------------------|------------|
| BrittlenessTemperature    | -70.0°C          | ASTM D746  |
| VicatSofteningTemperature | 123°C            | ASTM D1525 |
| MeltingTemperature        | 130°C            |            |

### Additional Information

Notched Izod Impact Strength, ASTM D256: 22 kg-cm/cm²  
Blow Up Ratio: 3 to 6

| Injection            | NominalValueUnit |
|----------------------|------------------|
| Processing(Melt)Temp | 180to220°C       |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.